

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
ILS STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.29**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT ID</u> KASH	<u>PROCEDURE NAME</u> ILS OR LOC RWY 14	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> NASHUA	<u>STATE</u> NH		
<u>AIRPORT ELEVATION</u> 200	<u>TDZE</u> 200	<u>SUPERSEDED</u> ILS OR LOC RWY 14	<u>ORIGINAL/AMENDMENT</u> 1C	<u>DATED</u> 06/20/2019	<u>MAG VAR</u> 16W	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> I-ASH	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 22 APRIL 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

**TERMINAL ROUTES**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
MUGGY INT	IF/IAF	LODTI INT					138.69	4.67 (I-ASH)	2500
LODTI INT		NORIY INT					138.69	3.20 (I-ASH)	1600

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: 4.25 NM AFTER NORIY INT

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 4000 ON HEADING 310 AND GDM R-071 TO JOHNS INT/GDM 19.75 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD NW MUGGY, LT, 138.69 INBOUND, 3800 FT. IN LIEU OF PT (IAF), MAX 4600.
- FAC: 138.69 FAF: NORIY INT DIST FAF TO MAP: 4.25 DIST FAF TO THLD: 4.25
- MIN ALT: MUGGY INT 3800, LODTI INT 2500, NORIY INT 1600, CIBES INT 740\*
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: 962
- MIN GS INCPT: 1600 GS ALT AT FAF: NORIY INT 1600 OM: MM: IM:
- GP ANGLE: 3.00 34:1: 20:1: TCH: 47.0
- MSA FROM: MHT VOR/DME 046-136 2600, 136-226 2000, 226-046 3500

**EQUIPMENT REQUIREMENTS NOTES:**



**NOTES:**

CHART PLANVIEW NOTE: NOPT FOR ARRIVAL AT MUGGY ON V490 EASTBOUND.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE CIBES FIX MINIMUMS S-LOC 14 CAT C/D VISIBILITY TO 1 SM.

**ADDITIONAL FLIGHT DATA:**

\* LOC ONLY

HOLD W, RT, 071.34 INBOUND.

CHART FAS OBST: 317 TOWER 424803N/0713313W.

CHART CIRCLING ICON.

**MINIMUMS:**

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

**ALTERNATE:** NA

ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE., NA WHEN CONTROL TOWER CLOSED.; LOC: STANDARD - CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE., NA WHEN CONTROL TOWER CLOSED.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 14	400	1/2	200	400	1/2	200	400	1/2	200	400	1/2	200			
S-LOC 14	740	1/2	540	740	1/2	540	740	1	540	740	1	540			
CIRCLING	820	1	620	840	1	640	900	2	700	1000	2 1/2	800			
CIBES FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)															
S-LOC 14	580	1/2	380	580	1/2	380	580	5/8	380	580	5/8	380			
CIRCLING	820	1	620	840	1	640	900	2	700	1000	2 1/2	800			

**CHANGES - REASONS**

1. REMOVED ALL NOTES REFERENCING THE BACK-UP ALTIMETER SETTING - MOVED TO FORM 8260-9 FOR CONTINGENCY USE.
2. CHANGED MISSED APPROACH INSTRUCTION TO READ: CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 4000 HEADING 310 AND GDM R-071 TO JOHNS INT AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000 - NAVAID USED IN PRIMARY MISSED APPROACH (LWM) IS BEING DECOMMISSIONED. ALTITUDE IS MINIMUM RECEPTION ALTITUDE FOR CROSSING NAVAID.
3. ADDED CHART NOTE: FOR INOPERATIVE ALS, INCREASE CIBES FIX MINIMUMS S-LOC 14 CAT C/D VISIBILITY TO 1 SM - REQUIRED ADJUSTMENT IS NOT COVERED BY THE INOPERATIVE TABLE.
4. DELETED ALTERNATE MISSED APPROACH PROCEDURE - MOVED MISSED APPROACH FIX DUE TO NAVAID DECOMMISSIONING.
5. CHANGED S-LOC 14 MDA/HAT/VIS CAT A FROM 760/560/1/2 TO 740/540/1/2, CAT B FROM 760/560/1/2 TO 740/540/1/2, CAT C FROM 760/560/1 1/8 TO 740/540/1, CAT D FROM 760/560/1 1/8 TO 740/540/1 - NEW FINAL CONTROLLING OBSTACLE FOUND.
6. CHANGED S-LOC 14 CIBES FIX MINIMUMS MDA/HAT/VIS CAT A/B FROM 660/460/1/2 TO 580/380/1/2, CAT C/D FROM 660/460/7/8 TO 580/380/5/8 - NEW LOWER CONTROLLING OBSTACLE FOUND.
7. CHANGED FAS OBST FROM 356 TOWER 424803N/0713313W TO 317 TOWER 424803N/0713313W - UPDATED OBSTACLE DATABASE.
8. ADDED ADDITIONAL FLIGHT DATA NOTE: CHART CIRCLING ICON - NEW CIRCLING AREA CRITERIA ADDED TO PROCEDURE AMENDMENT.
9. ADDED MAXIMUM HOLDING ALTITUDE "4600" TO H-I-L FIX - NEW REPORTS FORMAT ADDS MAX ALTITUDE AT H-I-L FIXES.

03/17/21: THIS IS AN UPDATED COPY OF THE FOR DEVELOPED ON 09/14/20.

1. CHANGED MISSED APPROACH INSTRUCTIONS TO "CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 4000 ON HEADING 310 AND GDM R-071 TO JOHNS INT/GDM 19.75 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000" DME CHANGED FROM 30.17 TO 19.75 PER FLIGHT INSPECTION.



**AIRPORT ID**  
KASH

**PROCEDURE NAME**  
ILS OR LOC RWY 14

**ORIGINAL/AMENDMENT**  
2

**CITY**  
NASHUA

**STATE**  
NH

**COORDINATED WITH:**

**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZBW, BOS APP CON, ASH ATCT

**FLIGHT CHECKED BY**  
JEREMY VIRTIS

**OFFICE**  
FIOG

**DATE**  
03/16/2021

*Digitally signed by*  
**DAVID TEFFETELLER**  
Mar 17, 2021

**DEVELOPED BY**  
JAMES LAFFERTY

*Digitally signed by*  
**JAMES LAFFERTY**  
Dec 04, 2020

**OFFICE**  
AJV-A433

**DATE**  
09/14/2020

**APPROVED BY**  
LONNIE EVERHART

*Digitally signed by*  
**DAVID TEFFETELLER**  
Mar 02, 2021

**OFFICE**  
AJV-A430

**DATE**

**TITLE**  
MANAGER